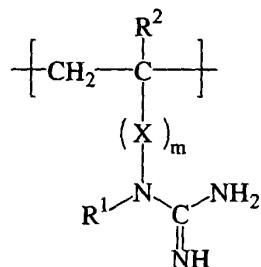


What is claimed is:

1. A polymer having a weight-average molecular weight of 5.0×10^3 to 1.0×10^7 and comprising a repeating unit represented by formula (I) below:

Formula (I)

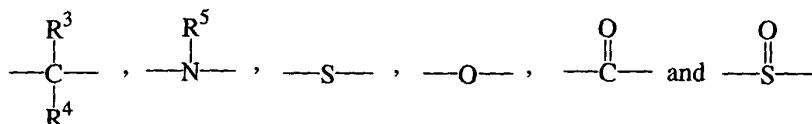


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wherein R^1 denotes a hydrogen atom or a hydrocarbon group, R^2 denotes a hydrogen atom or a methyl group, X denotes a bivalent connecting group, m denotes 0 or 1, and the guanidino group may form an acid-addition salt.

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2. The polymer of Claim 1, wherein X in formula (I) denotes a connecting group comprising one or more members selected from the group consisting of

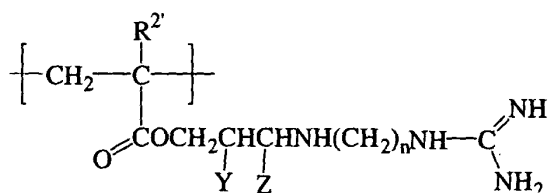


wherein R^3 , R^4 and R^5 each independently denote a hydrogen atom, an alkyl group with 1-24 carbon atoms, an aryl group, an arylalkyl group, or hydroxy group.

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3. The polymer of Claim 1, wherein said repeating unit is represented by formula (II) below:

Formula (II)



- wherein $\text{R}^{2'}$ denotes a hydrogen atom or a methyl group, one of Y and Z denotes a hydrogen atom and the other denotes a hydroxy group, n is 0 to 10, and the guanidino group may form an acid-addition salt.

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4. The polymer of Claim 1, wherein (X)_m in the formula (I) is >C=O or -CONH(CH₂)_p- wherein p is 0 to 10.

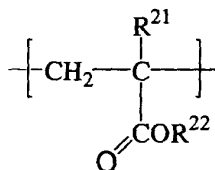
5 5. The polymer of Claim 1 having 5 or more percent by weight of said repeating unit of formula (I).

6. The polymer of Claim 1 having 15 or more percent by weight of said repeating unit of formula (I).

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7. The polymer of Claim 1 further comprising a repeating unit represented by formula (VI) below:

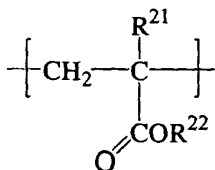
Formula (VI)



15 wherein R²¹ denotes a hydrogen atom or a methyl group and R²² denotes an alkyl group with 1-24 carbon atoms.

8. The polymer of Claim 3 further comprising a repeating unit represented by formula (VI) below:

20 Formula (VI)



wherein R²¹ denotes a hydrogen atom or a methyl group and R²² denotes an alkyl group with 1-24 carbon atoms.

25 9. The polymer of Claim 1 further comprising a repeating unit derived from a nonionic monomer.

10. The polymer of Claim 4 further comprising a repeating unit derived from

a nonionic monomer.

11. The polymer of Claim 4 further comprising a repeating unit derived from N-(meth)acryloylmorpholine and/or N-vinyl-2-pyrrolidone.

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12. A cosmetic composition comprising the polymer of Claim 1.

13. The cosmetic composition of Claim 12 for hair.

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14. The cosmetic composition of Claim 12 for skin.

15. The cosmetic composition of Claim 12 for nails.

16. The cosmetic composition of Claim 12 for enhancing hair fixation.

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17. The cosmetic composition of Claim 12 further comprising at least one selected from the group consisting of water, alcohol solvents, ester solvents, ketone solvents, and hydrocarbon solvents.

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18. The cosmetic composition of Claim 12 further comprising at least one selected from the group consisting of water and alcohol solvents.

19. A method of treating keratinous substances comprising the step of applying the polymer of Claim 1 to a keratinous substance.

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20. The method of treating keratinous substances of Claim 14, wherein said keratinous substance is hair, skin or nails.

21. A method of preparing the polymer of Claim 1 comprising the step of preparing a monomer having a guanidino group or an acid-addition salt thereof and the step of polymerizing said monomer alone or copolymerizing said monomer with another monomer.

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22. A method of preparing the polymer of Claim 1 comprising the step of

polymerizing a nitrogen-containing monomer alone or copolymerizing the monomer with another monomer to obtain a nitrogen-containing polymer and the step of introducing a guanidino group into said nitrogen-containing polymer.

- 5 23. A method of preparing the polymer of Claim 1 comprising the step of polymerizing a monomer having a reactive functional group alone or copolymerizing the monomer with another monomer to obtain a polymer having a reactive functional group and the step of reacting said polymer with a compound having both a guanidino group and a reactive group capable of reacting with said functional group.